

Track 3: Global warming of 1.5°C above pre-industrial levels in the context of sustainable development, and efforts to eradicate poverty

- *Adaptation and mitigation in relation to sustainable development, poverty eradication and food security*
- *Integrative framework for implementation pathways*

Framing chapter

- Must inform all other chapters
 - question how to ensure that conceptual framing is used across report
- Stay focused on 1.5, but link to sustainable development, poverty eradication, food security
- Multiple stressor framing
- Urgency/transformation needed to achieve this
- Very difficult to frame as 1.5 vs. 2C because of lack of literature on 1.5C
 - Be honest what we can know now, where we need more research
- 1.5C as avoidance of new climate induced poverty/human insecurity
- Account for different time frames (2030, 2050, 2100...)
- Careful balance of lament (what could be lost) and hope (what could be gained)

Proposed Strawperson Report Outline

Policy-relevant question	Chapter topic	Issues covered	Relevant answers
How can we usefully think about the challenge of 1.5C (given all the other sustainability challenges we face)?	Framing the 1.5 C challenges in the context of development trajectories/SD transitions to a low-carbon, climate-resilient future (differentiation)	Differential starting conditions and changes ahead (climatic/env., socio-economic); different SD gaps? Very different pathways toward the common global goal	Placing impacts of and associated pathways to 1.5 into real-world policy context of differential development trajectories
What happens at 1.5C? What are the avoided impacts compared to higher degrees of warming?	Differentiating 1.5 from 2C as a common global goal	Can we reasonably differentiate impacts based on climate modeling, observations? Thresholds? Uncertainties? The 1.5 vs. 2C worlds of extremes?	Avoided impacts
	Identifying critical climate change impacts and risks (most threatened env/social systems)	env., soc., etc. reasons for concern; regionally differentiated Food security, other SDGs, poverty eradication, losses (all	

		kinds) Draw on diff. knowledge /evidence; integrative view	
Where are we relative to where we would need to be if we wanted to keep warming below 1.5C?	Multiple emission pathways toward global common goal and signs of progress to date	Different pathways > different needs arise as to how to accelerate What signs are there as to whether we are on any of these paths? What are the implications of pathways for achieving SDGs?	Heroic efforts needed to fill mitigation, adaptation SD gaps
What options are available to accelerate mitigation and adaptation in the context of sust. development?	Sectoral levers (industry, energy, transportation, housing, food production, consumption...)	Framing thru transition theory (multi-dimensional, multi-scalar, actors...) Greatest opportunities; differential needs, range of constraints (technological, economic, social, ethical, institutional...), impacts, benefits	Sites of transformation with respective input on “feasibility” discussion
What do we know about how to implement low-carbon, climate-resilient options/pathways?	Governance for transformational change across scales	What is known about ways and means of implementation? Integration of policy mechanisms (incl. market mechanisms, social etc.), best practices Integration in international cooperation, trade	What is known about to accelerate change while minimizing suffering, multisolving